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## We Claim:

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- 1. A method for treating dry eye, said method comprising:
  - a) obtaining a composition comprising SEQ ID NO:1 or SEQ ID NO:3; and
  - b) administering said composition to a patient suffering from dry eye under conditions such that SEQ ID NO:1 or SEQ ID NO:3 is expressed.
- 2. The method of claim 1, wherein said composition comprises a vector comprising the sequence set forth in SEQ ID NO:1 or SEQ ID NO:3
- 3. The method of claim 1, wherein said administering is by topical ocular drops or ointment.
- 4. A composition for treatment of dry eye, said composition comprising a vector comprising the sequence set forth in SEQ ID NO:1 or SEQ ID NO:3 and a pharmaceutically acceptable excipient.
- 5. A method of treating dry eye in a postmenopausal patient, said method comprising incorporating nucleic acid into an *in situ* ocular cell under conditions permissive for the uptake of said nucleic acid, said nucleic acid encoding a protein having the sequence set forth in SEQ ID NO:2, whereby said nucleic acid is expressed and said disease is treated.
- 6. The method of claim 6, wherein said nucleic acid sequence comprises the sequence set forth in SEQ ID NO:1.
- 7. The method of claim 7, wherein said cell is a conjunctival or corneal epithelial cell.
- 8. The method of claim 8, wherein said cell is debrided prior to introducing said exogenous nucleic acid.
- 9. The method of claim 6, wherein said nucleic acid is in a viral vector.
- 10. The method of claim 6, wherein said nucleic acid is in a plasmid.
  - 11. The method of claim 10, wherein said nucleic acid is in a retrovirus.
  - 12. The method of claim 10, wherein said nucleic acid is in an adenovirus.
  - 13. The method of claim 10, wherein said nucleic acid is in an adeno-associated virus.
- 14. A method of treating dry eye in a postmenopausal patient, said method comprising incorporating nucleic acid into an *in situ* ocular cell under conditions permissive for the uptake of said nucleic acid, said nucleic acid encoding a protein having the

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sequence set forth in SEQ ID NO:4, whereby said nucleic acid is expressed and said disease is treated.

- 15. The method of claim 15, wherein said nucleic acid sequence comprises the sequence set forth in SEQ ID NO:3.
- 5 16. The method of claim 16, wherein said cell is a conjunctival or corneal epithelial cell.
  - 17. The method of claim 7, wherein said cell is debrided prior to introducing said exogenous nucleic acid.
  - 18. The method of claim 15, wherein said nucleic acid is in a viral vector.
  - 19. The method of claim 15, wherein said nucleic acid is in a plasmid.

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- 20. The method of claim 19, wherein said nucleic acid is in a retrovirus.
- 21. The method of claim 19, wherein said nucleic acid is in an adenovirus.
- 22. The method of claim 19, wherein said nucleic acid is in an adeno-associated virus.